

Reply to Office Action of March 3, 2003

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the present application.

LISTING OF CLAIMS:

A3 1. (currently amended) A copolymer consisting of a ~~strait chain~~ α -olefin units derived from propylene and units derived from a vinyl compound (I) represented by the general formula $\text{CH}_2=\text{CH}-\text{R}$, wherein R is a hydrocarbon group, the steric parameter E_s of the substituent R is -1.64 or less and the steric parameter B_1 of the substituent R is 1.53 or ~~more.~~ more;

wherein the copolymer contains units of the vinyl compound (I) of 10 to 50 mol%, and

the total amounts of units of the vinyl compound (I) and propylene of the copolymer are 100 mol%.

2. (currently amended) The copolymer according to claim 1, wherein the carbon atom at the 3-position of the vinyl compound (I) is a tertiary or quaternary carbon atom.

3. (currently amended) The copolymer according to claim 1, wherein the vinyl compound (I) has no branched structure in carbons except the carbon atom at the 3-position.

4. (original) The copolymer according to claim 1, wherein the substituent R in the vinyl compound (I) has a cyclic structure.

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5. (original) A molded article comprising the copolymer of claim 1.

6. (currently amended) An adhesive ~~comprising the copolymer of~~
~~claim 1 as an effective ingredient.~~ comprising:

a copolymer of units derived from a straight chain α -olefin having
3 to 20 carbon atoms and units derived from a vinyl compound (I)
represented by the general formula $\text{CH}_2=\text{CH}-\text{R}$, as an effective ingredient,

wherein R in said general formula is a hydrocarbon group, the
steric parameter of Es of the substituent R is -1.64 or less, and
the steric parameter of B1 of the substituent R is 1.53 or more,

wherein said copolymer contains the unit derived from the
vinyl compound (I) of 1 to 80 mol%, the total amounts of the vinyl
compound (I) and the propylene in the copolymer are 100 mol%, and
the weight average molecular weight of the copolymer is 1,000 to
1,000,000; and

a solvent selected from the group consisting of water, aromatic
hydrocarbons, aliphatic hydrocarbons, ketones and alcohols wherein the
solvent is used in an amount of 150 to 3000 parts by weight per 100
parts by weight of the copolymer.

7. (currently amended) ~~An~~ The adhesive according to claim 6,
~~comprising the copolymer of claim 2 as an effective ingredient. wherein~~
the carbon atom at the 3-position of the vinyl compound (I) is a
tertiary or quaternary carbon atom.

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8. (currently amended) ~~An~~ The adhesive according to claim 6,
~~comprising the copolymer of claim 3 as an effective ingredient. wherein~~
the vinyl compound (I) has no branched structure in the carbons except
the carbon at the 3-position.

9. (currently amended) ~~An~~ The adhesive according to claim 6,
~~comprising the copolymer of claim 4 as an effective ingredient. wherein~~
the substituent R in the vinyl compound (I) has a cyclic structure.

10. (currently amended) A laminate in which a layer comprising the
~~adhesive of claim 6~~ a copolymer of units derived from a straight chain
 α -olefin having 3 to 20 carbon atoms and units derived from a vinyl
compound (I) represented by the general formula $\text{CH}_2=\text{CH}-\text{R}$ (wherein R is a
hydrocarbon group, the steric parameter E_s of the substituent R is -1.64
or less and the steric parameter B_1 of the substituent R is 1.53 or
more), is laminated on an adherend. adherend,

wherein the copolymer contains the vinyl compound (I) of 1 to 80
mol%, the total amounts of the vinyl compound (I) and propylene in the

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copolymer are 100 mol%, and the weight average molecular weight of the copolymer is 1,000 to 1,000,000.

A3 11. (currently amended) ~~A laminate~~ The laminate in which a layer comprising the adhesive of claim 7 is laminated on an adherend. according to claim 10, wherein the carbon atom at the 3-position of the vinyl compound (I) is a tertiary or quaternary carbon atom.

12. (currently amended) ~~A laminate~~ The laminate according to claim 11, in which a layer comprising the adhesive of claim 8 is laminated on an adherend. wherein the vinyl compound (I) has no branched structure in the carbons except the carbon atom at the 3-position.

13. (currently amended) ~~A laminate~~ The laminate according to claim 12, in which a layer comprising the adhesive of claim 9 is laminated on an adherend. wherein the substituent R in the vinyl compound (I) has a cyclic structure.

A4 14. (new) The adhesive according to claim 6, wherein the straight chain α -olefin having 3 to 20 carbon atoms is propylene.

15. (new) The adhesive according to claim 6, wherein the copolymer is a copolymer consisting of units derived from the straight chain α -

olefin having 3 to 20 carbon atoms and units derived from the vinyl compound (I).

A4 16. (new) The laminate according to claim 10, wherein the straight chain α -olefin having 3 to 20 carbon atoms is propylene.

17. (new) The adhesive according to claim 10, wherein the copolymer is a copolymer consisting of units derived from the straight chain α -olefin having 3 to 20 carbon atoms and units derived from the vinyl compound (I).